

ABSTRACT

An electrostatic discharge protection device with high voltage and negative voltage tolerance is provided. The electrostatic discharge protection device comprises: a first type substrate; a first type well inside the first type substrate, the first type well being floating; a second type well inside the first type substrate, the second type well separating the first type well from the first type substrate, the second type well being coupled to a first voltage line; a second type first doped region inside the first type well and coupled to a second voltage line; a second type second doped region inside the first type well and coupled to the pad; and an isolation structure between the second type first doped region and the second type second doped region.